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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-05-17-06 **Date: 20-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-06/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/05/2017	20/05/2017	150.42 X 151.54 X 150.52	22795	8.328	371.6	16.3	16.9
2	Drain Concrete	M20	13/05/2017	20/05/2017	149.28 X 150.54 X 151.27	22473	8.336	388.8	17.3	
3	Drain Concrete	M20	13/05/2017	20/05/2017	149.37 X 150.54 X 150.31	22486	8.369	384.5	17.1	

Note:
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Prepared by
Harsitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-17-06** **Date: 10-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-17
Sample ID No	:	2017-05-17-06/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	13/05/2017	10/06/2017	150.12 X 150.64 X 150.77	22614	8.307	504.3	22.3	22.5
2	Drain Concrete	M20	13/05/2017	10/06/2017	150.43 X 150.54 X 149.55	22646	8.327	527.6	23.3	
3	Drain Concrete	M20	13/05/2017	10/06/2017	150.52 X 150.54 X 149.55	22659	8.314	494.0	21.8	

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-03-07** **Date: 06-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-07/03
Sample Type	:	Fine aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	67	67	6.7	93.3	90-100	90-100	90-100	95-100
3	2.36 mm	164	231	23.1	76.9	60-95	75-100	85-100	95-100
4	1.18 mm	207	438	43.8	56.2	30-70	55-90	75-100	90-100
5	600 micron	189	627	62.7	37.3	15-34	35-59	60-79	80-100
6	300 micron	207	834	83.4	16.6	5-20	8-30	12-40	15-50
7	150 micron	118	952	95.2	4.8	0-10	0-10	0-10	0-15
8	Pan	48	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF PRECAST COVER SLAB

Date: 06-05-17

Lab ID	:	CP-2017-05-03-07
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-07/04
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	03/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.23	1.126	4477	90.5	20.2	18.8	23.5
2	Cover Slab-2	75.49	100.34	1.132	4475	91.6	20.5	19.0	23.8
3	Cover Slab-3	75.50	100.42	1.128	4476	92.6	20.7	19.2	24.0

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Prepared by
Harshitha

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-03-07** **Date:06-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-07/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	574	574	3.8	96.2	90-100
3	20 mm	6278	6852	45.7	54.3	30-70
4	10 mm	5414	12266	81.8	18.2	10-35
5	4.75 mm	2158	14424	96.2	3.8	0-5
6	Pan	576	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Date:06-05-2017

Lab ID : CP-2017-05-03-07

Sample ID No : 2017-05-03-07/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	1.54	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.23	–

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Prepared by
Harshitha

FOR CIVIL Pro.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-03-07 **Date:06-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-07/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-17

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.85	–
2	Finess by Air permeablity method (m^2/kg, Min)	272.2	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 01-06-2017

Lab ID	:	CP-2017-05-03-07
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Road at Ashwini Hospital road Yelahanka in Ward No-01 of Yelahanka Sub Division.
Agency	:	Sri. B.R Mohan, No:10, 1st B main Chikkabommasandra, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/28/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-07/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-05-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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